

Dadra & Nagarhaveli 2: 302. 1986; Almeida, Fl. Savantwadi 1: 301. 1990. *Gratiola parviflora* Roxb., Pl. Cor. 3: 3, t. 204. 1811. *Ilysanthes parviflora* (Roxb.) Benth., Scroph. Ind. 34. 1846; Cooke, Fl. Bombay 2: 368. 1967 (repr. ed.).

Grows mostly in shallow ponds, marshy places and paddy fields. Flower colour varies from white to blue. Rao (l.c.) recorded this species from Nagarhaveli but not from Goa region.

**Fl. & Fr.:** July-August.

**Exsiccata:** Goa, University campus, Taleigao, 21.7.1993, Rupa 7; Marcel, 15.8.1993, Rupa 17.

7. ***Lindernia rotundifolia*** (L.) Alston in Trimen, Handb. Fl. Ceylon 6 (Suppl.): 214. 1931; Sivarajan & Mathew in J. Bombay nat. Hist. Soc. 80: 135. 1983; Almeida, Fl. Savantwadi 1: 301. 1990. *Gratiola rotundifolia* L., Mant. Pl. 274. 1771. *Ilysanthes rotundifolia* (L.) Benth. in DC., Prodr. 10: 420. 1846.

This erect or prostrate herb is strikingly different in its ovate — orbicular, 3-nerved leaves. Common in marshy or moist areas.

**Fl. & Fr.:** August-January.

**Exsiccata:** Goa, Marcel, 15.8.1993, Rupa 21.

8. ***Lindernia tenuifolia*** (Colsm.) Alston var. ***pygmaea*** Sivarajan & Mathew in J. Bombay nat. Hist. Soc. 80: 134. 1983.

A tufted herb; similar to *L. tenuifolia* var. *tenuifolia* but for its dwarf size. Specimens show lot of variations especially with regard to their leaf shape and size. Found growing with typical variety in marshy places. Very rare.

**Fl. & Fr.:** August.

**Exsiccata:** Goa, Marcel, 15.8.1993, Rupa 22.

9. ***Mecardonia procumbens*** (Mill.) Small, Fl. Southeast U.S. 1065 & 1338. 1903; Saldanha in Saldanha & Nicolson, Fl. Hassan 523. 1976. *Erinus procumbens* Mill., Gard. Dict. ed. 8. n.6. 1768.

A small erect or prostrate herb; sepals unequal; corolla yellow. This exotic weed has been recorded sporadically from Peninsular India.

**Fl. & Fr.:** August-September.

**Exsiccata:** Goa, University campus, Taleigao, 21.8.1993, Rupa 27.

10. ***Microcarpaea minima*** (Koen.) Merr. in Philipp. J. Sci. 7: 100. 1912; Almeida, Fl. Savantwadi 1: 302. 1990. *Paederota minima* Koen. in Retz. Obs. Bot. 5: 10. 1789. *Microcarpaea muscosa* R. Br., Prodr. 436. 1810; Santapau in J. Bombay nat. Hist. Soc. 49: 48. 1950.

A small prostrate herb forming dense mats in moist fallow fields and paddy fields after harvest. Resembles *Dentella* spp. of Rubiaceae.

**Fl. & Fr.:** December-February.

**Exsiccata:** Goa, Taleigao, Rupa 50.

#### ACKNOWLEDGEMENTS

We thank the authorities of BSI and MH for granting permission to consult herbaria and libraries. We also thank Prof. V.V. Sivarajan, Department of Botany, Calicut University for confirming the identity of *Lindernia* spp. and Dr. S.R. Yadav, Reader and Head, Department of Botany, Goa University for his help in various ways.

June 16, 1994

RUPA A. KULKARNI

M.K. JANARTHANAM

Department of Botany,  
Goa University, Goa-403 203.

### 39. *KICKXIA INCANA* (WALL.) PENNELL. (SCROPHULARIACEAE) — A NEW PLANT RECORD FOR KARNATAKA

Specimens of *Kickxia incana* (Wall.) Pennell. (Scrophulariaceae) have been collected during a critical survey of the flora of North-Western Karnataka, and it forms a new record for the state of Karnataka. Description of the species along with notes are provided here. The specimens are deposited

in the Herbarium of Botany Department, Shivaji University, Kolhapur.

***Kickxia incana*** (Wall.) Pennell, Scroph. West. Himal. 59. 1943; Sant. in J. Bombay nat. Hist. Soc. 49: 27. 1950; Almeida, Fl. Savantwadi. 1: 295, 1990. *Linaria incana* Wall., Pl. As. Rar. 2: 43. 1831. *L.*

*cabulica* Benth. in DC., Prodr. 10: 270. 1846; Cooke, Fl. Pres. Bombay 2: 354, 1905. *L. cabulica* var. *pubescens* Hooker f. in Fl. Brit. India 4: 251. 1883.

Hairy, much branched herb. Stem herbaceous, aerial, terete, diffuse-prostrate, trailing, 10-40 cm long. Leaves triangular-ovate, lower leaves 3-7 lobed, opposite, upper leaves entire, alternate, main nerves 5-7, hairy on both surfaces, 0.3-4.2 x 0.3-3.0 cm, exstipulate, petiolate, petiole 0.2-1.5 cm long, hairy. Flowers solitary, axillary, ebracteate, pedicel 5-9 mm long, filiform, hairy, bent at apex; calyx polysepalous densely hairy, sepals linear — lanceolate, acute, membranous; corolla yellow, personate, spurred, corolla tube 4.5-7.5 mm long, pubescent-hairy at outer side, spurred at base, spur 2-3 mm long, lower lip 3 lobed, upper lip slightly shorter than lower lip. Stamens 4, didynamous, filaments glabrous, style stout, stigma capitate, ovules many. Capsule ovoid or globose with persistent calyx. Seeds numerous, minute, angular, rugose, brown-black.

**Note:** Growing on walls of old forts, houses, temples and in crevices of rocks at Rajhunsgrad fort in Belgaum District. The species was only found on the highest parts of the hills.

**Flowering:** September-December.

**Fruiting:** October-January.

**Distribution:** The species has been reported from Purandhar fort (Santapau 1957), Mahabaleshwar (Bole and Almeida 1985, Deshpande *et al.* 1993) and Savantwadi (Almeida 1990) of Maharashtra State.

**Specimens observed:** MPB-4715, Sant.-22879 (BLAT), SMA-26.

#### ACKNOWLEDGEMENTS

We thank the Director, Royal Botanic Gardens, Kew for confirming the identification of the species and Professor M.S. Patil, Head of Botany Department, Shivaji University, Kolhapur for providing facilities.

November 23, 1994

M. P. BACHULKAR

Department of Botany, Vivekanand College,  
Kolhapur-416 003.

S. R. YADAV

Department of Botany, Goa University,  
Goa -403 203.

S. K. LIMAYE

Aryangla Vaidyak Mahavidyalaya,  
Satara-415 002.

#### REFERENCES

- BOLE, P.V. & M.R. ALMEIDA (1985): Material for the flora of Mahabaleshwar-6. *J. Bombay nat. Hist. Soc.* 82 (1): 69.  
DESHPANDE, S., B.D. SHARMA & M.P. NAYAR (1993): Flora of

Mahabaleshwar and Adjoinings, Maharashtra. BSI. Calcutta: 409.

SANTAPAU, H. (1957): The Flora of Purandhar. BSI. Calcutta: 90-91.

### 40. *DORSTENIA INDICA* WIGHT (MORACEAE) — A NEW PLANT RECORD FOR MAHARASHTRA

Well established strands of *Dorstenia indica* Wight (Moraceae) have been observed during repeated excursions to Saptashrungi hills of Nashik District, Maharashtra at an altitude of 800 metres. Collections were made for its complete study. The identity of this species is confirmed and as it forms a new record for Maharashtra, description along with notes are provided here. The specimens are deposited in the Herbarium of Botany Department, Shivaji University, Kolhapur.

***Dorstenia indica*** Wight, l.c. Pl. Ind. Or. 6: 1964. 1843; Bur. In DC., Prod. 17: 272. 1873; Hook. f., Fl.Br.Ind.5: 494. 1890; Trimen, Handb. Fl. Ceylon 4: 102. 1898; Gamble, Fl. Pres. Madras 3: 1370. 1928; Fyson, Fl. South Ind. Hill Stations 1: 542, f. 474. 1932; Fischer, Fl. Pres. Madras 8: 958. 1956.

Succulent herb, 7.5-25 cm high. Stems fleshy, tapering, curved ascending, unbranched but proliferating from the base, rooting from the underside, sparsely hairy, latex white. Leaves